

***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE***

Applicant: Hiroyuki ICHIKAWA, et al

Title: REFORMING APPARATUS

Appl. No.: Unassigned

Filing Date: 05/25/2001

Examiner: Unassigned

Art Unit: Unassigned

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with 37 CFR §1.121, please substitute for original claims

6-10 the following rewritten versions of the same claims, as amended. The changes are shown explicitly in the attached "Version with Markings to Show Changes Made."

**IN THE CLAIMS:**

6. (Amended) The apparatus of claim 3, wherein the temperature measuring means at least measures the temperature of a predetermined location in a gas passage on the inlet side of the first catalyst.

7. (Amended) The apparatus of claim 3, wherein the temperature measuring means at least measures the temperature of an inside location of the first catalyst.

8. (Amended) The apparatus of claim 3, wherein the temperature measuring means at least measures the temperature of a predetermined location in a gas passage on the outlet side of the first catalyst.

9. (Amended) The apparatus of claim 1, wherein the hydrocarbon is methanol; and

each of the first and second catalysts is one of a copper-based catalyst and a palladium-based catalyst.

10. (Amended) The apparatus of claim 1, wherein the hydrocarbon is methanol; and

the first catalyst is one of a copper-based catalyst and a palladium-based catalyst; and

the second catalyst is an oxidation catalyst.

Please add the following new claims.

11. (New) The apparatus of claim 5, wherein the temperature measuring means at least measures the temperature of a predetermined location in a gas passage on the inlet side of the first catalyst.

12. (New) The apparatus of claim 5, wherein the temperature measuring means at least measures the temperature of an inside location of the first catalyst.

13. (New) The apparatus of claim 5, wherein the temperature measuring means at least measures the temperature of a predetermined location in a gas passage on the outlet side of the first catalyst.

14. (New) The apparatus of claim 4, wherein the hydrocarbon is methanol; and

each of the first and second catalysts is one of a copper-based catalyst and a palladium-based catalyst.

15. (New) The apparatus of claim 4, wherein the hydrocarbon is methanol; and

the first catalyst is one of a copper-based catalyst and a palladium-based catalyst; and

the second catalyst is an oxidation catalyst.

**REMARKS**

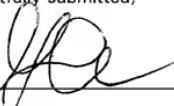
Applicant respectfully request that the foregoing amendments to Claims 6-10 and new Claims 11-15 be entered in order to avoid this application incurring a surcharge for the presence of one or more multiple dependent claims.

Date May 25, 2001

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Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

6. (Amended) The apparatus of [any one of claims 3 and 5] claim 3,

wherein the temperature measuring means at least measures the temperature of a predetermined location in a gas passage on the inlet side of the first catalyst.

7. (Amended) The apparatus of [any one of claims 3 and 5] claim 3,

wherein the temperature measuring means at least measures the temperature of an inside location of the first catalyst.

8. (Amended) The apparatus of [any one of claims 3 and 5] claim 3,

wherein the temperature measuring means at least measures the temperature of a predetermined location in a gas passage on the outlet side of the first catalyst.

9. (Amended) The apparatus of [any one of claims 1 and 4] claim 1,

wherein the hydrocarbon is methanol; and

each of the first and second catalysts is one of a copper-based catalyst and a palladium-based catalyst.

10. (Amended) The apparatus of [any one of claims 1 and 4] claim 1,

wherein the hydrocarbon is methanol; and

the first catalyst is one of a copper-based catalyst and a palladium-based catalyst; and

the second catalyst is an oxidation catalyst.